

SEQUENCE LISTING

<110> Pramod K. Srivastava

<120> ALPHA(2) MACROGLOBULIN RECEPTOR AS A HEAT SHOCK
PROTEIN RECEPTOR AND USES THEREOF

<130> 8449-123

<150> 60/209,095

<151> 2000-06-02

<160> 57

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 14849

<212> DNA

<213> Mus musculus

<400> 1

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Phe	Ala	Cys	Arg	Asp	Gln	Ile	Thr	Cys	Ile	Ser	Lys	Gly	Trp	Arg	Cys
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Asp	Gly	Glu	Arg	Asp	Cys	Pro	Asp	Gly	Ser	Asp	Glu	Ala	Pro	Glu	Ile
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 Gly Thr Ser Leu Ala Val Gly Ile Asp Phe His Ala Glu Asn Asp Thr
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Asp	Asp	Cys	Gly	Asp	Gly	Ser	Asp	Glu	Arg	Gly	Cys	His	Val	Asn	Glu
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Cys	Leu	Ser	Arg	Lys	Leu	Ser	Gly	Cys	Ser	Gln	Asp	Cys	Glu	Asp	Leu
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Leu Thr Ser Phe Glu Val Val Ile Gln Tyr Gly Leu Ala Thr Pro Glu
35     40     45
Gly Leu Ala Val Asp Trp Ile Ala Gly Asn Ile Tyr Trp Val Glu Ser
50     55     60
Asn Leu Asp Gln Ile Glu Val Ala Lys Leu Asp Gly Thr Leu Arg Thr
65     70     75     80
Thr Leu Leu Ala Gly Asp Ile Glu His Pro Arg Ala Ile Ala Leu Asp
85     90     95
Pro Arg Asp Gly Ile Leu Phe Trp Thr Asp Trp Asp Ala Ser Leu Pro
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Asn Ile Leu Pro Glu Lys Glu Glu Phe Pro Phe Ala Leu Gly Val Gln
35     40     45
Thr Leu Pro Gln Thr Cys Asp Glu Pro Lys Ala His Thr Ser Phe Gln
50     55     60
Ile Ser Leu Ser Val Ser Tyr Thr Gly Ser Arg Ser Ala Ser Asn Met
65     70     75     80
Ala Ile Val Asp Val Lys Met Val Ser Gly Phe Ile Pro Leu Lys Pro
85     90     95

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Thr Val Lys Met Leu Glu Arg Ser Asn His Val Ser Arg Thr Glu Val
100 105 110
Ser Ser Asn His Val Leu Ile Tyr Leu Asp Lys Val Ser Asn Gln Thr
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Lys Pro Ala Ile Val Lys Val Tyr Asp
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<210> 9
<211> 138
<212> PRT
<213> Homo sapiens

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35 40 45
Gln Ile Ser Leu Ser Val Ser Tyr Thr Gly Ser Arg Ser Ala Ser Asn
50 55 60
Met Ala Ile Val Asp Val Lys Met Val Ser Gly Phe Ile Pro Leu Lys
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Pro Thr Val Lys Met Leu Glu Arg Ser Asn His Val Ser Arg Thr Glu
85 90 95
Val Ser Ser Asn His Val Leu Ile Tyr Leu Asp Lys Val Ser Asn Gln
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Leu Lys Pro Ala Ile Val Lys Val Tyr Asp
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<211> 126
<212> PRT
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35 40 45

Leu Pro Gln Thr Cys Asp Glu Pro Lys Ala His Thr Ser Phe Gln Ile
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 35 40 45
 Leu Pro Gln Thr Cys Asp Glu Pro Lys Ala His Thr Ser Phe Gln Ile
 50 55 60
 Ser Leu Ser Val Ser Tyr Thr Gly Ser Arg Ser Ala Ser Asn Met Ala
 65 70 75 80
 Ile Val Asp Val Lys Met Val Ser Gly Phe Ile Pro Leu Lys Pro Thr
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 Val Lys Met Leu Glu Arg Ser Asn His Val Ser Arg Thr Glu Val
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 Val Thr Gly Glu Gly Cys Val Tyr Leu Gln Thr Ser Leu Lys Tyr Asn
 20 25 30
 Ile Leu Pro Glu Lys Glu Glu Phe Pro Phe Ala Leu Gly Val Gln Thr
 35 40 45
 Leu Pro Gln Thr Cys Asp Glu Pro Lys Ala His Thr Ser Phe Gln Ile
 50 55 60
 Ser Leu Ser Val Ser Tyr Thr Gly Ser Arg Ser Ala Ser Asn Met Ala
 65 70 75 80
 Ile

<210> 14
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 14

[illegible]

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<210> 15
<211> 76
<212> PRT
<213> Homo sapiens
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<400> 15															
Gln	Thr	Ser	Leu	Lys	Tyr	Asn	Ile	Leu	Pro	Glu	Lys	Glu	Glu	Phe	Pro
1				5					10					15	
Phe	Ala	Leu	Gly	Val	Gln	Thr	Leu	Pro	Gln	Thr	Cys	Asp	Glu	Pro	Lys
			20					25					30		
Ala	His	Thr	Ser	Phe	Gln	Ile	Ser	Leu	Ser	Val	Ser	Tyr	Thr	Gly	Ser
		35					40					45			
Arg	Ser	Ala	Ser	Asn	Met	Ala	Ile	Val	Asp	Val	Lys	Met	Val	Ser	Gly
	50					55					60				
Phe	Ile	Pro	Leu	Lys	Pro	Thr	Val	Lys	Met	Leu	Glu				
65					70					75					

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<210> 16
<211> 56
<212> PRT
<213> Homo sapiens
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<400> 16															
Gln	Thr	Ser	Leu	Lys	Tyr	Asn	Ile	Leu	Pro	Glu	Lys	Glu	Glu	Phe	Pro
1				5					10					15	
Phe	Ala	Leu	Gly	Val	Gln	Thr	Leu	Pro	Gln	Thr	Cys	Asp	Glu	Pro	Lys
			20					25					30		
Ala	His	Thr	Ser	Phe	Gln	Ile	Ser	Leu	Ser	Val	Ser	Tyr	Thr	Gly	Ser
		35					40					45			
Arg	Ser	Ala	Ser	Asn	Met	Ala	Ile								
50						55									

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<210> 17
<211> 76
<212> PRT
<213> Homo sapiens
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<400> 17
Gln Thr Cys Asp Glu Pro Lys Ala His Thr Ser Phe Gln Ile Ser Leu
1 5 10 15
Ser Val Ser Tyr Thr Gly Ser Arg Ser Ala Ser Asn Met Ala Ile Val
20 25 30

Ser Asp Glu Ala Pro Glu Ile Cys Pro Gln Ser Lys Ala Gln Arg Cys
35 40 45
Gln Pro Asn Glu His Asn Cys Leu Gly Thr Glu Leu Cys Val Pro Met
50 55 60
Ser Arg Leu Cys Asn Gly Val Gln Asp Cys Met Asp Gly Ser Asp Glu
65 70 75 80
Gly Pro His Cys Arg Glu
85

<210> 22
<211> 43
<212> PRT
<213> Homo sapiens

<400> 22
Lys Ala Gln Arg Cys Gln Pro Asn Glu His Asn Cys Leu Gly Thr Glu
1 5 10 15
Leu Cys Val Pro Met Ser Arg Leu Cys Asn Gly Val Gln Asp Cys Met
20 25 30
Asp Gly Ser Asp Glu Gly Pro His Cys Arg Glu
35 40

<210> 23
<211> 42
<212> PRT
<213> Homo sapiens

<400> 23
Gln Cys Gln Pro Gly Glu Phe Ala Cys Ala Asn Ser Arg Cys Ile Gln
1 5 10 15
Glu Arg Trp Lys Cys Asp Gly Asp Asn Asp Cys Leu Asp Asn Ser Asp
20 25 30
Glu Ala Pro Ala Leu Cys His Gln His Thr
35 40

<210> 24
<211> 82
<212> PRT
<213> Homo sapiens

<400> 24
Gln Cys Gln Pro Gly Glu Phe Ala Cys Ala Asn Ser Arg Cys Ile Gln
1 5 10 15
Glu Arg Trp Lys Cys Asp Gly Asp Asn Asp Cys Leu Asp Asn Ser Asp
20 25 30
Glu Ala Pro Ala Leu Cys His Gln His Thr Cys Pro Ser Asp Arg Phe
35 40 45
Lys Cys Glu Asn Asn Arg Cys Ile Pro Asn Arg Trp Leu Cys Asp Gly
50 55 60
Asp Asn Asp Cys Gly Asn Ser Glu Asp Glu Ser Asn Ala Thr Cys Ser
65 70 75 80
Ala Arg

<210> 25
<211> 122
<212> PRT
<213> Homo sapiens

Cys Pro Ser Asp Arg Phe Lys Cys Glu Asn Asn Arg Cys Ile Pro Asn
 1 5 10 15
 Arg Trp Leu Cys Asp Gly Asp Asn Asp Cys Gly Asn Ser Glu Asp Glu
 20 25 30
 Ser Asn Ala Thr Cys Ser Ala Arg Thr Cys Pro Pro Asn Gln Phe Ser
 35 40 45
 Cys Ala Ser Gly Arg Cys Ile Pro Ile Ser Trp Thr Cys Asp Leu Asp
 50 55 60
 Asp Asp Cys Gly Asp Arg Ser Asp Glu Ser Ala Ser Cys Ala Tyr Pro
 65 70 75 80
 Thr Cys Phe Pro Leu Thr Gln Phe Thr Cys Asn Asn Gly Arg Cys Ile
 85 90 95
 Asn Ile Asn Trp Arg Cys Asp Asn Asp Asn Asp Cys
 100 105

<210> 35
 <211> 289
 <212> PRT
 <213> Homo sapiens

<400> 35
 Cys Pro Ser Asp Arg Phe Lys Cys Glu Asn Asn Arg Cys Ile Pro Asn
 1 5 10 15
 Arg Trp Leu Cys Asp Gly Asp Asn Asp Cys Gly Asn Ser Glu Asp Glu
 20 25 30
 Ser Asn Ala Thr Cys Ser Ala Arg Thr Cys Pro Pro Asn Gln Phe Ser
 35 40 45
 Cys Ala Ser Gly Arg Cys Ile Pro Ile Ser Trp Thr Cys Asp Leu Asp
 50 55 60
 Asp Asp Cys Gly Asp Arg Ser Asp Glu Ser Ala Ser Cys Ala Tyr Pro
 65 70 75 80
 Thr Cys Phe Pro Leu Thr Gln Phe Thr Cys Asn Asn Gly Arg Cys Ile
 85 90 95
 Asn Ile Asn Trp Arg Cys Asp Asn Asp Asn Asp Cys Gly Asp Asn Ser
 100 105 110
 Asp Glu Ala Gly Cys Ser His Ser Cys Ser Ser Thr Gln Phe Lys Cys
 115 120 125
 Asn Ser Gly Arg Cys Ile Pro Glu His Trp Thr Cys Asp Gly Asp Asn
 130 135 140
 Asp Cys Gly Asp Tyr Ser Asp Glu Thr His Ala Asn Cys Thr Asn Gln
 145 150 155 160
 Ala Thr Arg Pro Pro Gly Gly Cys His Thr Asp Glu Phe Gln Cys Arg
 165 170 175
 Leu Asp Gly Leu Cys Ile Pro Leu Arg Trp Arg Cys Asp Gly Asp Thr
 180 185 190
 Asp Cys Met Asp Ser Ser Asp Glu Lys Ser Cys Glu Gly Val Thr His
 195 200 205
 Val Cys Asp Pro Ser Val Lys Phe Gly Cys Lys Asp Ser Ala Arg Cys
 210 215 220
 Ile Ser Lys Ala Trp Val Cys Asp Gly Asp Asn Asp Cys Glu Asp Asn
 225 230 235 240
 Ser Asp Glu Glu Asn Cys Glu Ser Leu Ala Cys Arg Pro Pro Ser His
 245 250 255
 Pro Cys Ala Asn Asn Thr Ser Val Cys Leu Pro Pro Asp Lys Leu Cys
 260 265 270
 Asp Gly Asn Asp Asp Cys Gly Asp Gly Ser Asp Glu Gly Glu Leu Cys
 275 280 285
 Asp

[illegible]

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<210> 37
<211> 79
<212> PRT
<213> Homo sapiens

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<210> 38
<211> 126
<212> PRT
<213> Homo sapiens
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<210>	39
<211>	68
<212>	PRT

[illegible][illegible]

<213> Homo sapiens

Cys 1	Pro	Pro	Asn	Gln 5	Phe	Ser	Cys	Ala	Ser 10	Gly	Arg	Cys	Ile 15	Pro	Ile
Ser	Trp	Thr	Cys 20	Asp	Leu	Asp	Asp 25	Asp	Cys	Gly	Asp	Arg	Ser 30	Asp	Glu
Ser	Ala	Ser 35	Cys	Ala	Tyr	Pro	Thr 40	Cys	Phe	Pro	Leu	Thr 45	Gln	Phe	Thr
Cys 50	Asn	Asn	Gly	Arg	Cys	Ile 55	Asn	Ile	Asn	Trp	Arg	Cys	Asp	Asn	Asp
Asn 65	Asp	Cys	Gly	Asp	Asn 70	Ser	Asp	Glu	Ala	Gly 75	Cys	Ser	His	Ser	Cys
Ser	Ser	Thr	Gln	Phe 85	Lys	Cys	Asn	Ser	Gly 90	Arg	Cys	Ile	Pro 95	Glu	His
Trp	Thr	Cys	Asp 100	Gly	Asp	Asn	Asp 105	Cys	Gly	Asp	Tyr	Ser	Asp 110	Glu	Thr
His	Ala	Asn 115	Cys	Thr	Asn	Gln	Ala 120	Thr	Arg	Pro	Pro	Gly 125	Gly	Cys	His
Thr	Asp 130	Glu	Phe	Gln	Cys	Arg 135	Leu	Asp	Gly	Leu	Cys	Ile	Pro	Leu	Arg
Trp 145	Arg	Cys	Asp	Gly 150	Asp	Thr	Asp	Cys	Met	Asp 155	Ser	Ser	Asp	Glu	Lys
Ser	Cys	Glu	Gly 165	Val	Thr	His	Val	Cys	Asp 170	Pro	Ser	Val	Lys	Phe	Gly
Cys	Lys	Asp	Ser 180	Ala	Arg	Cys	Ile	Ser 185	Lys	Ala	Trp	Val	Cys 190	Asp	Gly
Asp	Asn 195	Asp	Cys	Glu	Asp	Asn	Ser 200	Asp	Glu	Glu	Asn	Cys 205	Glu	Ser	Leu
Ala 210	Cys	Arg	Pro	Pro	Ser	His 215	Pro	Cys	Ala	Asn	Asn	Thr	Ser	Val	Cys
Leu 225	Pro	Pro	Asp	Lys 230	Leu	Cys	Asp	Gly	Asn	Asp 235	Asp	Cys	Gly	Asp	Gly
Ser	Asp	Glu	Gly 245	Glu	Leu	Cys	Asp								

<213> Homo sapiens

<212> PRT
<213> Homo sapiens

<400> 44

Thr Cys Phe Pro Leu Thr Gln Phe Thr Cys Asn Asn Gly Arg Cys Ile
1 5 10 15
Asn Ile Asn Trp Arg Cys Asp Asn Asp Asn Asp Cys Gly Asp Asn Ser
20 25 30
Asp Glu Ala Gly Cys Ser His Ser Cys Ser Ser Thr Gln Phe Lys Cys
35 40 45
Asn Ser Gly Arg Cys Ile Pro Glu His Trp Thr Cys Asp Gly Asp Asn
50 55 60
Asp Cys Gly Asp Tyr Ser Asp Glu Thr His Ala Asn Cys Thr Asn Gln
65 70 75 80
Ala Thr Arg Pro Pro Gly Gly Cys His Thr Asp Glu Phe Gln Cys Arg
85 90 95
Leu Asp Gly Leu Cys Ile Pro Leu Arg Trp Arg Cys Asp Gly Asp Thr
100 105 110
Asp Cys Met Asp Ser Ser Asp Glu Lys Ser Cys Glu Gly Val Thr His
115 120 125
Val Cys Asp Pro Ser Val Lys Phe Gly Cys Lys Asp Ser Ala Arg Cys
130 135 140
Ile Ser Lys Ala Trp Val Cys Asp Gly Asp Asn Asp Cys Glu Asp Asn
145 150 155 160
Ser Asp Glu Glu Asn Cys Glu Ser Leu Ala Cys Arg Pro Pro Ser His
165 170 175
Pro Cys Ala Asn Asn Thr Ser Val Cys Leu Pro Pro Asp Lys Leu Cys
180 185 190
Asp Gly Asn Asp Asp Cys Gly Asp Gly Ser Asp Glu Gly Glu Leu Cys
195 200 205
Asp

<210> 45
<211> 47
<212> PRT
<213> Homo sapiens

<400> 45

Ser Cys Ser Ser Thr Gln Phe Lys Cys Asn Ser Gly Arg Cys Ile Pro
1 5 10 15
Glu His Trp Thr Cys Asp Gly Asp Asn Asp Cys Gly Asp Tyr Ser Asp
20 25 30
Glu Thr His Ala Asn Cys Thr Asn Gln Ala Thr Arg Pro Pro Gly
35 40 45

<210> 46
<211> 89
<212> PRT
<213> Homo sapiens

<400> 46

Ser Cys Ser Ser Thr Gln Phe Lys Cys Asn Ser Gly Arg Cys Ile Pro
1 5 10 15
Glu His Trp Thr Cys Asp Gly Asp Asn Asp Cys Gly Asp Tyr Ser Asp
20 25 30
Glu Thr His Ala Asn Cys Thr Asn Gln Ala Thr Arg Pro Pro Gly Gly
35 40 45

Pro Leu Arg Trp Arg Cys Asp Gly Asp Thr Asp Cys Met Asp Ser Ser
 20 25 30
 Asp Glu Lys Ser Cys Glu Gly Val Thr His Val Cys Asp Pro Ser Val
 35 40 45
 Lys Phe Gly Cys Lys Asp Ser Ala Arg Cys Ile Ser Lys Ala Trp Val
 50 55 60
 Cys Asp Gly Asp Asn Asp Cys Glu Asp Asn Ser Asp Glu Glu Asn Cys
 65 70 75 80
 Glu Ser Leu

<210> 50
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 50
 Gly Cys His Thr Asp Glu Phe Gln Cys Arg Leu Asp Gly Leu Cys Ile
 1 5 10 15
 Pro Leu Arg Trp Arg Cys Asp Gly Asp Thr Asp Cys Met Asp Ser Ser
 20 25 30
 Asp Glu Lys Ser Cys Glu Gly Val Thr His Val Cys Asp Pro Ser Val
 35 40 45
 Lys Phe Gly Cys Lys Asp Ser Ala Arg Cys Ile Ser Lys Ala Trp Val
 50 55 60
 Cys Asp Gly Asp Asn Asp Cys Glu Asp Asn Ser Asp Glu Glu Asn Cys
 65 70 75 80
 Glu Ser Leu Ala Cys Arg Pro Pro Ser His Pro Cys Ala Asn Asn Thr
 85 90 95
 Ser Val Cys Leu Pro Pro Asp Lys Leu Cys Asp Gly Asn Asp Asp Cys
 100 105 110
 Gly Asp Gly Ser Asp Glu Gly Glu Leu Cys Asp
 115 120

<210> 51
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 51
 Val Cys Asp Pro Ser Val Lys Phe Gly Cys Lys Asp Ser Ala Arg Cys
 1 5 10 15
 Ile Ser Lys Ala Trp Val Cys Asp Gly Asp Asn Asp Cys Glu Asp Asn
 20 25 30
 Ser Asp Glu Glu Asn Cys Glu Ser Leu
 35 40

<210> 52
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 52
 Val Cys Asp Pro Ser Val Lys Phe Gly Cys Lys Asp Ser Ala Arg Cys
 1 5 10 15
 Ile Ser Lys Ala Trp Val Cys Asp Gly Asp Asn Asp Cys Glu Asp Asn
 20 25 30

Ser Asp Glu Glu Asn Cys Glu Ser Leu Ala Cys Arg Pro Pro Ser His
 35 40 45
 Pro Cys Ala Asn Asn Thr Ser Val Cys Leu Pro Pro Asp Lys Leu Cys
 50 55 60
 Asp Gly Asn Asp Asp Cys Gly Asp Gly Ser Asp Glu Gly Glu Leu Cys
 65 70 75 80
 Asp

<210> 53
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 53
 Ala Cys Arg Pro Pro Ser His Pro Cys Ala Asn Asn Thr Ser Val Cys
 1 5 10 15
 Leu Pro Pro Asp Lys Leu Cys Asp Gly Asn Asp Asp Cys Gly Asp Gly
 20 25 30
 Ser Asp Glu Gly Glu Leu Cys Asp
 35 40

<210> 54
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 54
 Ser Gly Phe Ser Leu Gly Ser Asp Gly Lys
 1 5 10

<210> 55
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 55
 Gly Ile Ala Leu Asp Pro Ala Met Gly Lys
 1 5 10

<210> 56
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 56
 Gly Gly Ala Leu His Ile Tyr His Gln Arg
 1 5 10

<210> 57
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 57
 Val Phe Phe Thr Asp Tyr Gly Gln Ile Pro Lys
 1 5 10